

1. (canceled)
2. (canceled)
3. (canceled)
4. (canceled)
5. (canceled)
6. (canceled)
7. (canceled)
8. (canceled)
9. (canceled)
10. (canceled)
11. (canceled)
12. (canceled)

13. (new) An item checkout device comprising:
a housing suitable for mounting within a checkout
counter

a barcode reader in the housing including
a laser for generating a laser beam;
an optical transceiver for passing the laser beam
and for collecting light reflected from an item;
a mirrored polygon spinner for directing the laser
beam from the optical transceiver and directing the light
reflected from the item to the optical transceiver;
a plurality of pattern mirrors for creating a scan
pattern from the laser beam received from the mirrored

polygon spinner and for collecting the light reflected from the item;

a photodetector for converting the light reflected from the item into electrical signals;

control circuitry for determining whether barcode label information exists in the electrical signals and, if so, for determining first identification information from the barcode label information; and

A a communication port coupled to the control circuitry; and

a radio frequency interrogator in the housing and coupled to the communication port of the barcode reader for transmitting a wireless interrogation signal to determine whether the item is labeled with a radio frequency product label, and if so, for obtaining second identification information from the radio frequency product label;

wherein the control circuitry also generates output information including obtained identification information.

14. (new) The item processing device as recited in claim 13, further comprising:

a scale within the housing for obtaining weight information for items sold by weight;

wherein the output information includes obtained weight information.

15. (new) An item checkout device comprising:

a housing suitable for mounting within a checkout counter

a barcode reader in the housing including

a laser for generating a laser beam;

an optical transceiver for passing the laser beam and for collecting light reflected from an item;

A' a mirrored polygon spinner for directing the laser beam from the optical transceiver and directing the light reflected from the item to the optical transceiver;

a plurality of pattern mirrors for creating a scan pattern from the laser beam received from the mirrored polygon spinner and for collecting the light reflected from the item;

a photodetector for converting the light reflected from the item into electrical signals;

control circuitry for determining barcode label information in the electrical signals and for determining first identification information from the barcode label information; and

a communication port coupled to the control circuitry; and

a radio frequency interrogator in the housing and coupled to the communication port of the barcode reader for

transmitting a wireless interrogation signal, for receiving a response signal from a radio frequency product label on the item, and for obtaining second identification information from the response signal;

wherein the control circuitry also generates output information including the first and second identification information.

16. (new) An item checkout device comprising:

A' a housing suitable for mounting within a checkout counter

a barcode reader in the housing including

a laser for generating a laser beam;

an optical transceiver for passing the laser beam and for collecting light reflected from an item;

a mirrored polygon spinner for directing the laser beam from the optical transceiver and directing the light reflected from the item to the optical transceiver;

a plurality of pattern mirrors for creating a scan pattern from the laser beam received from the mirrored polygon spinner and for collecting the light reflected from the item;

a photodetector for converting the light reflected from the item into electrical signals;

first control circuitry for determining whether

barcode label information exists in the electrical signals and, if so, for determining first identification information from the barcode label information; and

a communication port coupled to the first control circuitry; and

a radio frequency interrogator in the housing including

a label interrogator for transmitting a wireless interrogation signal to receive second identification information from a radio frequency product label, if one exists on the item; and

second control circuitry coupled to the communication port of the barcode reader for controlling the label interrogator and for sending the second identification information to the first control circuitry;

wherein the first control circuitry also generates output information including obtained first and obtained second identification information.

17. (new) An item checkout system comprising:

an item checkout device including

a housing suitable for mounting within a checkout counter;

a laser in the housing for generating a laser beam;

an optical transceiver in the housing for passing

the laser beam and for collecting light reflected from an item;

a mirrored polygon spinner in the housing for directing the laser beam from the optical transceiver and directing the light reflected from the item to the optical transceiver;

A
a plurality of pattern mirrors in the housing for creating a scan pattern from the laser beam received from the mirrored polygon spinner and for collecting the light reflected from the item;

a photodetector in the housing for converting the light reflected from the item into electrical signals;

control circuitry in the housing for determining whether barcode label information exists in the electrical signals and, if so, for determining first identification information from the barcode label information; and

a communication port in the housing and coupled to the control circuitry;

a radio frequency interrogator in the housing and coupled to the communication port of the barcode reader for transmitting a wireless interrogation signal to determine whether the item is labeled with a radio frequency product label, and if so, for obtaining second identification information from the radio frequency product label;

wherein the control circuitry also generates

output information including obtained identification information; and

a computer for obtaining item price information using the obtained identification information and for completing payment for the item.

A 18. The item checkout system as recited in claim 17, wherein the item checkout device further comprises:

a scale within the housing for obtaining weight information for items sold by weight;

wherein the output information includes obtained weight information.
